

Streamlined Safety for Industrial and Robotics Systems

QNX OS for Safety 8.0

QNX OS® for Safety is engineered with safety and security at its core, and powered by a safe-by-design microkernel architecture trusted in the world's most demanding systems. With Intel's safety-capable processors and QNX OS for Safety 8.0, a high-performance, safety-certified operating system, the platform provides a streamlined approach to building safety-critical applications across industrial, robotics, medical, etc.

Advanced Safety Capabilities: Enables robust, real-time performance while meeting global safety standards like IEC 61508 SIL 3.

Simplified Development: Offers a cohesive hardware-software foundation that streamlines system architecture and reduce complexity.

Accelerated Safety Certification: Helps manufacturers fast-track safety compliance and reduce time to market.

Robust and Reliable Systems: Ensures all components—from processors to real-time OS—work seamlessly to deliver secure, standards-compliant solutions.



The QNX OS for Safety 8.0 streamlines safety certification and reduces time to market.

Key Intel-Enabled Features



Certified-Ready Compute



Real-Time Performance



Secure Boot Process



Controlled I/O Memory

Powered by Intel Atom® x6427FE processor and QNX OS for Safety 8.0, the solution:

- Offers pre-certified foundational hardware software functional safety solution
- Accelerates product delivery and development of safety-critical systems
- Delivers hardware consolidation for running safety and non-safety workloads

Intel Products and Technologies

- [Intel Atom®](#)
- [Intel® Silicon Integrity Technology](#)
- [Intel® Virtualization Technology \(Intel® VT\) for Directed I/O \(Intel® VT-d\)](#)
- [Intel® Slim Bootloader](#)

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Ordering Guidance:

- [QNX OS for Safety](#)

Country/Geo: Worldwide

Edge Verticals/ Industry: Manufacturing & Robotics

Edge Use Cases: Quality Control; Operational Efficiency; Worker Safety; Robotics

Learn more:

- [QNX Operating System for Safety \(OOS\)](#)